

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P974179

Luminaire Tested: FLR2-24-35-L835-CP125

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P974179  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/13/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: FLR2-24-35-L835-CP125  
Description: SHAPER SENSE CIRCLE  
  
Light Source: FLR2-24-35-L835-CP125  
Ballast/Driver: -

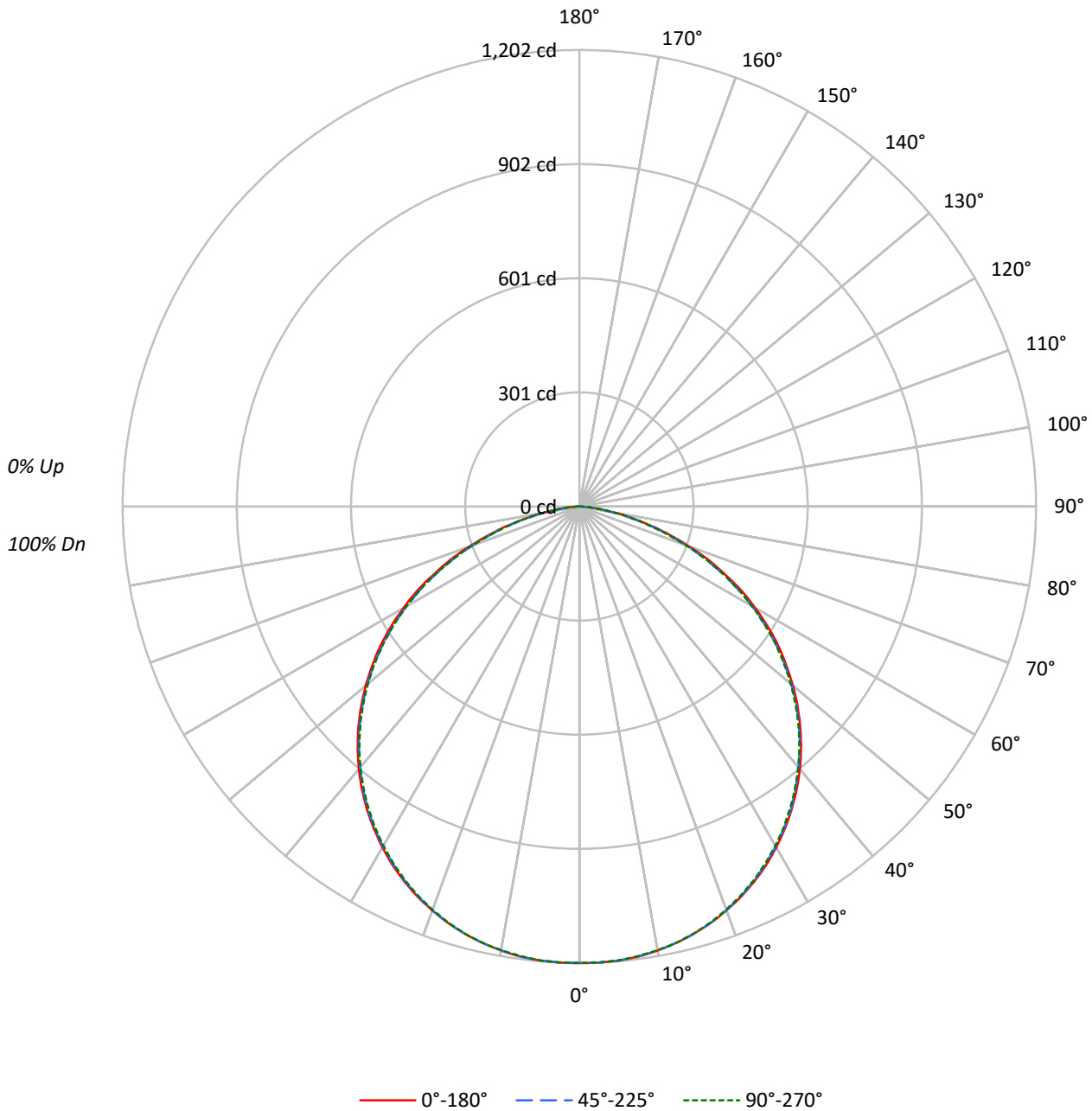
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3398.3 lumens  
Efficiency: N/A  
Efficacy: 119.7 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor:  
Total Harmonic Distortion (THDi):  
Frequency (hertz): 60  
Stabilization Time: HR  
Operation Time: HR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20										
RC	80									70									50									30									10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0														
RCR																																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100															
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85					85															
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71					71															
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60					60															
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51					51															
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44					44															
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38					38															
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34															
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30					30															
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27					27															
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25					25															

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1618	1618	1618
5°	1621	1621	1620
10°	1622	1622	1621
15°	1623	1622	1622
20°	1621	1620	1618
25°	1618	1615	1612
30°	1611	1606	1603
35°	1600	1596	1590
40°	1586	1576	1574
45°	1565	1556	1552
50°	1536	1524	1520
55°	1500	1479	1477
60°	1437	1412	1412
65°	1345	1313	1317
70°	1210	1173	1170
75°	1016	976	971
80°	742	705	735
85°	420	386	394

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1565 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.1	3.4
10°-20°	328.8	9.7
20°-30°	501.3	14.8
30°-40°	607.4	17.9
40°-50°	630.9	18.6
50°-60°	564.4	16.6
60°-70°	411.3	12.1
70°-80°	203.7	6.0
80°-90°	36.4	1.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	944.2	27.8
0°-40°	1551.6	45.7
0°-60°	2746.9	80.8
0°-90°	3398.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3398.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1202	1202	1202	1202	1202	
5°	1200	1201	1200	1200	1199	114
15°	1165	1164	1164	1165	1164	329
25°	1090	1088	1088	1087	1086	502
35°	974	973	972	970	968	609
45°	823	821	818	816	815	634
55°	639	635	630	630	630	570
65°	422	419	412	414	414	419
75°	195	192	188	191	187	208
85°	27	25	25	26	26	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1202.4	1202.4	1202.4	1202.4	1202.4
2.5°	1202.4	1202.0	1202.0	1202.4	1201.5
5°	1200.2	1200.7	1200.2	1200.2	1199.4
7.5°	1195.5	1195.1	1194.6	1195.1	1193.8
10°	1187.3	1187.3	1186.9	1187.3	1186.4
12.5°	1177.4	1177.4	1177.4	1177.8	1177.4
15°	1164.9	1164.4	1164.4	1165.3	1164.4
17.5°	1150.2	1149.8	1149.8	1149.3	1148.5
20°	1132.1	1132.1	1131.6	1131.2	1129.9
22.5°	1112.7	1112.2	1110.9	1110.9	1109.2
25°	1089.8	1088.5	1087.6	1087.2	1085.9
27.5°	1064.8	1063.0	1061.7	1060.9	1059.6
30°	1036.7	1035.0	1033.7	1032.4	1031.5
32.5°	1006.5	1005.7	1003.5	1003.1	1001.3
35°	974.2	972.9	971.6	969.9	968.1
37.5°	939.7	938.4	935.3	934.5	933.2
40°	903.0	901.3	897.4	897.4	896.1
42.5°	863.7	862.0	859.4	857.7	856.8
45°	822.7	821.0	818.0	816.3	815.4
47.5°	779.2	777.9	774.4	773.1	771.8
50°	733.9	732.1	728.3	727.4	726.1
52.5°	686.4	685.5	680.4	679.9	678.6
55°	639.4	634.6	630.3	630.3	629.5
57.5°	587.6	584.2	578.5	578.5	577.7
60°	534.1	531.1	524.6	525.5	524.6
62.5°	481.9	475.4	469.4	472.0	469.8
65°	422.4	418.9	412.4	414.2	413.7
67.5°	368.0	361.5	355.5	358.9	357.2
70°	307.6	304.2	298.1	301.6	297.3
72.5°	250.7	247.6	241.6	245.5	241.2
75°	195.4	192.4	187.7	191.1	186.8
77.5°	143.2	141.1	136.8	140.2	141.1
80°	95.8	93.2	91.0	94.1	94.9
82.5°	56.1	54.4	53.5	53.9	56.1
85°	27.2	25.0	25.0	25.5	25.5
87.5°	7.3	6.5	7.3	7.8	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)